4D SYSTEM

4D SYSTEM

PARTS BREAKDOWN

4d SYSTEM

Sun-4d System

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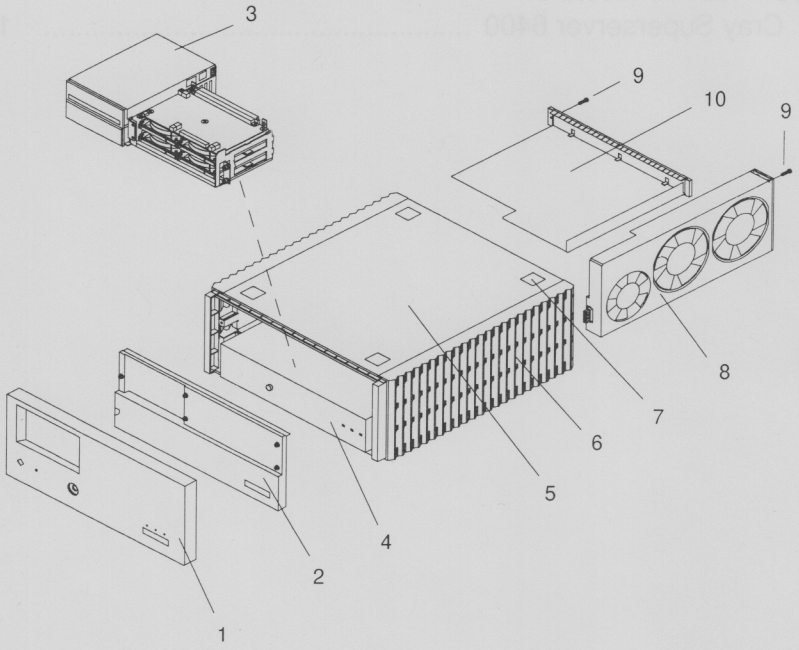
SPARCserver 1000 and 1000E

S1000 S1000E S1001E

4-Slot XDBus Logic Enclosure



SPARCserver 1000 and 1000E

S1000 S1000E S1001E

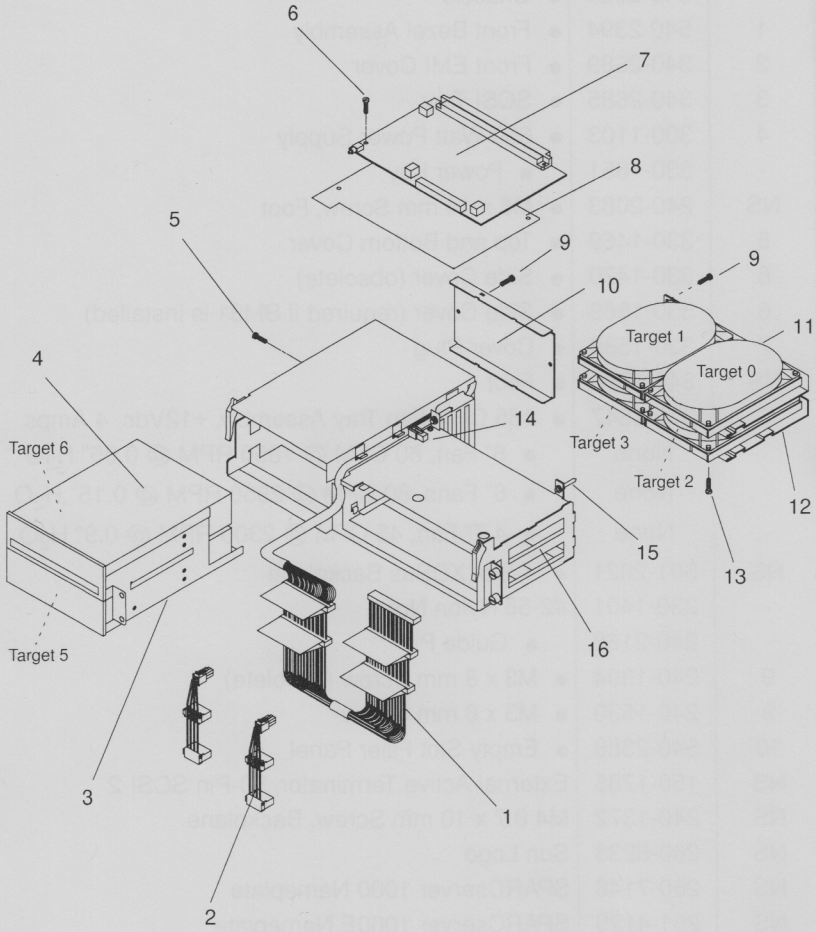
4-Slot XDBus Logic Enclosure

CODE	PART #	DESCRIPTION
	540-2273	Chassis Assembly
	340-2684	• Chassis
1	540-2394	• Front Bezel Assembly
2	340-2689	• Front EMI Cover
3	340-2685	• SCSI Tray
4	300-1103	• 650 Watt Power Supply
-	330-1651	• Power Key
NS	240-2083	• M6 x 14 mm Screw, Foot
5	330-1469	• Top and Bottom Cover
6	330-1470	• Side Cover (obsolete)
6	330-1869	• Side Cover (required if SM81 is installed)
7	330-1589	• Cover Plug
NS	340-1590	• Foot
8	370-1547	• 185 CFM Fan Tray Assembly, +12Vdc, 4 Amps
-	None	• 6" Fan, 60 CFM @ 1850 RPM @ 0.05" H_2O
-	None	• 6" Fans, 80 CFM @ 2950 RPM @ 0.15" H_2O
-	None	• 4.7" Fan, 45 CFM @ 2300 RPM @ 0.9" H_2O
NS	501-2021	• 4-Slot XDBus Backplane
-	230-1401	#2-56 Nylon Nut
-	240-2168	• Guide Pin
9	240-1394	• M3 x 8 mm Screw (obsolete)
9	240-1530	• M3 x 6 mm Screw
10	540-2388	• Empty Slot Filler Panel
NS	150-1785	External Active Terminator, 50-Pin SCSI-2
NS	240-1372	M4 0.7 x 10 mm Screw, Backplane
NS	260-6233	Sun Logo
NS	260-7146	SPARCserver 1000 Nameplate
NS	261-4129	SPARCserver 1000E Nameplate
NS	530-1871	10BASE-T Cable, RJ45 to RJ45, 4M
NS	560-2011	Guide Pin Kit with 10 Guide Pins
-	230-1401	• #2-56 Nylon Nut
-	240-2168	• Guide Pin
	801-2895	*SPARCserver 1000 System Service Manual*

SPARCserver 1000 and 1000E

S1000 S1000E S1001E

SCSI Tray



SPARCserver 1000 and 1000E

S1000 S1000E S1001E

SCSI Tray

CODE	PART #	DESCRIPTION
1	530-1911	Internal SCSI Cable, 1M
2	530-1913	3 1/2" SCSI Power Cable
3	340-2687	5 1/4" SCSI Mounting Bracket
4	370-1312	SunCD CD-ROM
4	370-1584	SunCD Plus CD-ROM
4	370-1682	SunCD2 Plus CD-ROM
4	370-2103	SunCD4 CD-ROM
4	370-1571	5.0GB 4 mm Tape Drive
5	240-1621	M3 x 8 mm Screw (obsolete)
5	240-1530	M3 x 6 mm Screw
6	240-1559	M4 x 6 mm Screw, Control Board
7	501-1979	Programmed 40MHz SS1000 Control Board
7	501-2412	Unprogrammed 40MHz SS1000 Control Board
7	501-2667	Programmed 50MHz SS1000E Control Board [1]
7	501-2673	Unprogrammed 50MHz SS1000E Control Board [1]
8	330-1856	Mylar Shield
9	240-1530	M3 x 6 mm Screw
10	340-2705	SCSI Tray Rear EMI Cover
11	370-1424	535MB 5400 RPM Disk Drive, Conner CP30540
11	370-1424	535MB 5400 RPM Disk Drive, Seagate ST3610N
11	370-1710	1.05GB 5400 RPM Disk Drive, Seagate ST31200N
11	370-1963	1.05GB 5400 RPM Disk Drive, Conner CFP1080S
11	370-1957	2.1GB 7200 RPM Disk Drive, IBM DFHS-32160
11	370-2067	2.1GB 7200 RPM Disk Drive, Seagate ST32550N
12	340-2688	3 1/2" Disk Drive Mounting Bracket
13	240-1734	#6-32 x 3/16" Screw (obsolete)
13	240-2077	#6-32 x 3/16" Screw
14	530-1912	5 1/4" SCSI Power Cable
15	340-2638	Alignment Pin, Backplane
16	340-2685	SCSI Tray
NS	540-2429	1/2-Height Peripheral Filler Panel

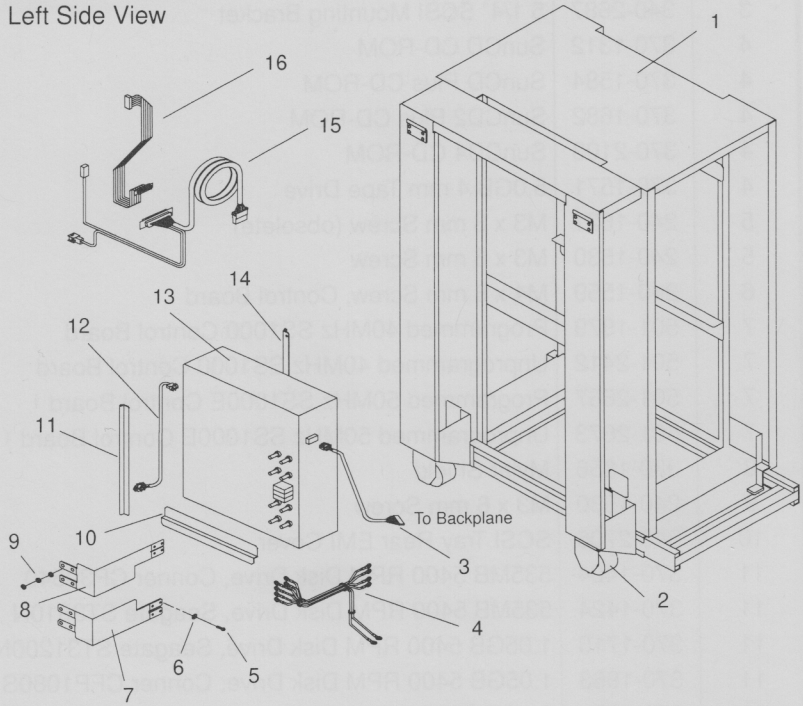
[1] Fan tray 370-1547-04 is required because of increased EMI by the 50MHz Control Board and reduced EMI by the fan tray design changes. No changes were made to the cooling capability of the fan tray.

SPARCcenter 2000 and 2000E

S2000 S2000E S2001E

56-inch Data Center Cabinet

Left Side View



SPARCcenter 2000 and 2000E

S2000 S2000E S2001E

56-inch Data Center Cabinet

CODE	PART #	DESCRIPTION
1	599-1821	SC2000 and SC2000E Rack Assembly
2	240-1717	Caster
3	530-1728	Power Supply Sense to Backplane Harness
3	530-2210	Power Supply Sense to Backplane Harness [1]
4	530-1743	Power Supply +/- 12 Volt to Backplane Harness
5	240-1372	M4 0.7 x 10 mm Screw
6	240-1952	M4 Washer (Bus Bar to Backplane)
7	340-2620	Power Supply +1.2Vdc Lower Bus Bar
8	340-2621	Power Supply +5Vdc Upper Bus Bar
9	240-2213	M8 1.25 Nut, Washer, and Lock Washer
10	340-2414	Power Supply Mounting Bracket, Lower
11	340-2416	Power Supply Mounting Bracket, Front
12	530-1738	Power Supply to AC Distribution Unit Harness
13	300-1073	2410 Watt Power Supply (obsolete)
13	300-1258	2410 Watt Power Supply (obsolete)
13	300-1286	2410 Watt Power Supply
13	300-1281	2410 Watt Power Supply [1]
14	340-2415	Power Supply Mounting Bracket, Rear
NS	340-2394	Power Supply Mounting Shelf
NS	340-2395	Power Supply EMI Cover
15	530-1724	AC Dist to Blower to Filter to Keyswitch Harness
16	530-1725	Backplane to DB25 Filter Harness
NS	130-2034	DB-25 Filter
NS	130-1080	Jackscrew for DB25 Filter
NS	240-1957	M4 0.7 x 25 mm Screw (Power Supply EMI Cover)
NS	340-2400	Cardcage EMI Cover
NS	340-2412	Cardcage Support Rail, Lower Left
NS	340-2413	Cardcage Support Rail, Upper Left
NS	340-2396	Cardcage Support Rail, Upper Right
NS	340-2397	Cardcage Support Rail, Lower Right
NS	340-2563	Cardcage Lower Access Panel
NS	540-2114	Cardcage Slot Filler Panel

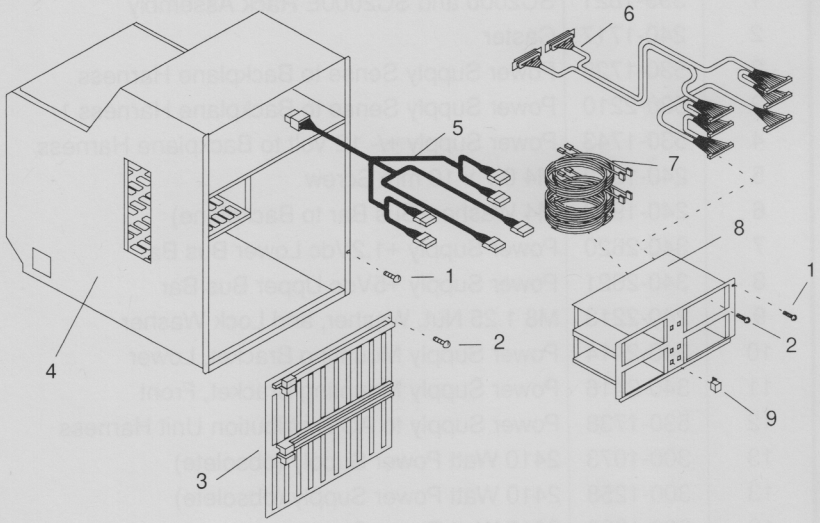
[1] The PCM_FAIL signal prevents booting when Sense Cable 530-1728 is used with Power Supply 300-1281. Use Sense Cable 530-2210.

SPARCcenter 2000 and 2000E

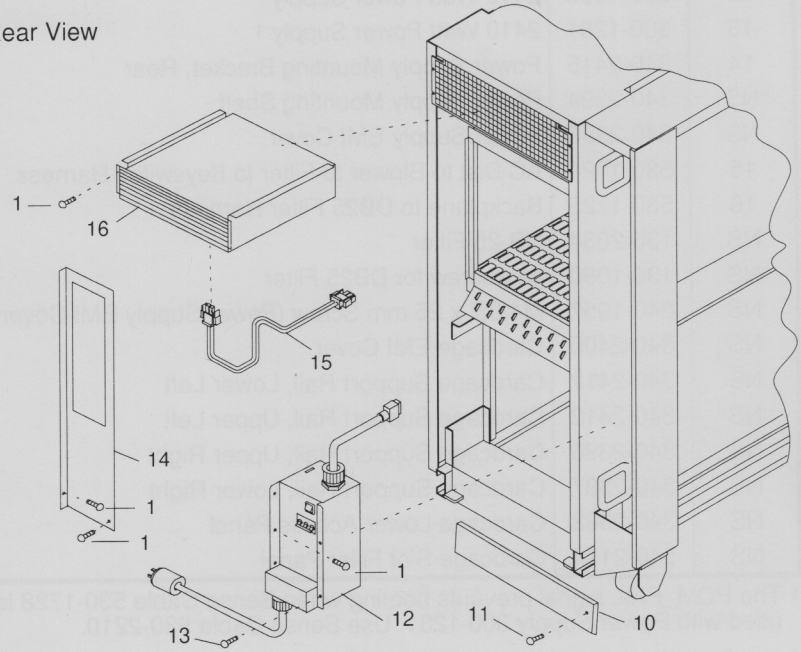
S2000 S2000E S2001E

Logic Enclosure and Data Center Cabinet

Front View



Rear View



SPARCcenter 2000 and 2000E

S2000 S2000E S2001E

Logic Enclosure and Data Center Cabinet

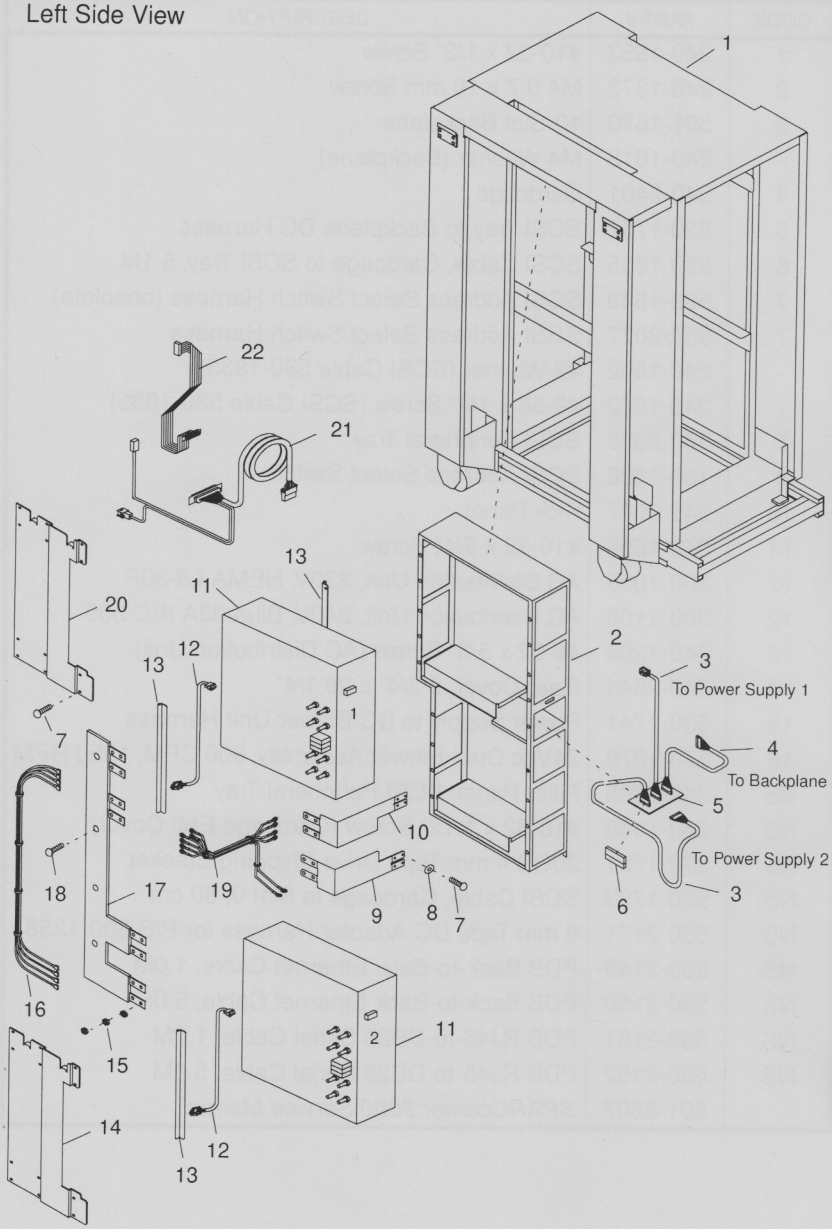
CODE	PART #	DESCRIPTION
1	240-1953	#10-32 x 1/2" Screw
2	240-1372	M4 0.7 x 10 mm Screw
3	501-1670	10-Slot Backplane
-	240-1618	M4 Washer (Backplane)
4	340-2401	Cardcage
5	530-1752	SCSI Tray to Backplane DC Harness
6	530-1835	SCSI Cable, Cardcage to SCSI Tray, 5.1M
7	530-1849	SCSI Address Select Switch Harness (obsolete)
7	530-2077	SCSI Address Select Switch Harness
-	240-1502	#2 Washer (SCSI Cable 530-1835)
-	240-1612	#2-56 x 1/4" Screw (SCSI Cable 530-1835)
8	340-2399	SCSI Peripheral Tray
9	150-1806	SCSI Address Select Switch
10	340-2047	Kick Panel
11	240-1655	#10-32 x 3/4" Screw
12	300-1099	AC Distribution Unit, 230V, NEMA L6-30P
12	300-1100	AC Distribution Unit, 240V, Blue 32A IEC 309
13	240-1202	#6-32 x 5/8" Screw (AC Distribution Unit)
14	340-2644	Rear Cover, 5 3/4" x 29 1/4"
15	530-1741	Power Supply to DC Blower Unit Harness
16	370-1379	24Vdc Dual-Blower Assembly, 600 CFM, 1350 RPM
NS	340-2305	Filler Panel, SCSI Peripheral Tray
NS	240-1958	#10-32 x 1.12" Screw (Cardcage EMI Cover)
NS	370-1751	20GB 4 mm Tape Drive Shipping Bracket
NS	530-1793	SCSI Cable, Cardcage to Slot 0, 80 cm
NS	530-2171	8 mm Tape DC Adapter Harness for P/S 300-1258
NS	530-2149	PDB Back-to-Back Ethernet Cable, 1.0M
NS	530-2150	PDB Back-to-Back Ethernet Cable, 5.0M
NS	530-2151	PDB RJ45-to-DB25 Serial Cable, 1.0M
NS	530-2152	PDB RJ45-to-DB25 Serial Cable, 5.0M
	801-2007	*SPARCcenter 2000 Service Manual*

SPARCcenter 2000E

S2000E S2001E

56-inch Data Center Cabinet

Left Side View



SPARCcenter 2000E

S2000E S2001E

56-inch Data Center Cabinet

CODE	PART #	DESCRIPTION
1	599-2027	SC2000E Rack Assembly with 1 Power Supply
1	599-2031	SC2000E Rack Assembly with 2 Power Supplies
2	340-3133	Power Supply Mounting Shelf
3	530-2162	Power Supply Sense to P/S Interface PCB Harness
4	530-2163	P/S Interface PCB to Backplane Harness
5	501-2724	Power Supply Interface Card
6	530-2170	Jumper Plug (installed if there is only 1 power supply)
7	240-1372	M4 0.7 x 10 mm Screw
8	240-1952	M4 Washer (Bus Bar to Backplane)
9	340-2620	Top Power Supply +1.2Vdc Lower Bus Bar
10	340-2621	Top Power Supply +5Vdc Upper Bus Bar
11	300-1281	2410 Watt Power Supply [1]
12	530-1738	Power Supply to AC Distribution Unit Harness
13	340-2415	Power Supply Mounting Bracket
14	340-3190	Bottom Power Supply Mounting Bracket
15	240-2213	M8 1.25 Nut, Washer, and Lock Washer
16	530-2164	Top to Bottom Power Supply +/- 12Vdc Harness
17	340-3163	Top to Bottom Power Supply Bus Bar
18	240-1435	M6 x 18 mm Screw for 340-3136 (x4)
19	530-1743	Top Power Supply +/- 12Vdc to Backplane Harness
20	340-3135	Top Power Supply Mounting Bracket
21	530-2161	AC Dist to Blower to Filter to Keyswitch Harness
22	530-1725	Backplane to DB25 Filter Harness
NS	130-2034	DB-25 Filter
NS	130-1080	Jackscrew for DB25 Filter
NS	240-1957	M4 0.7 x 25 mm Screw (Power Supply EMI Cover)
NS	340-3134	Power Supply EMI Cover

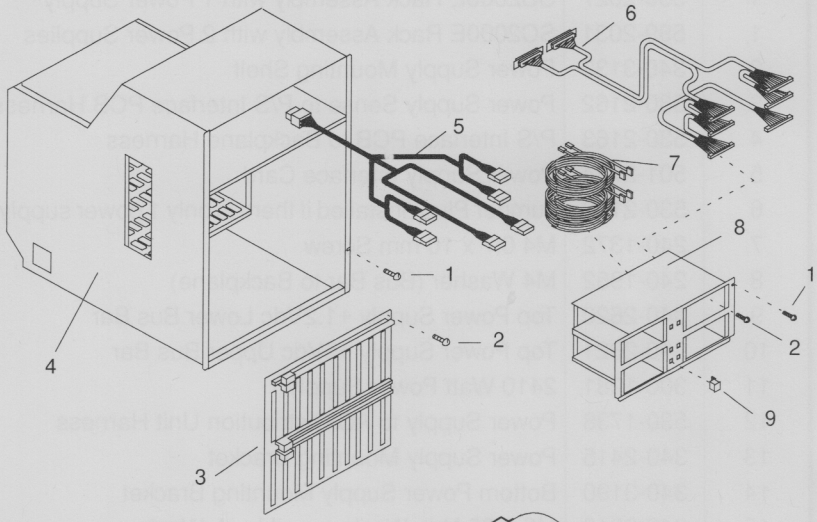
[1] Do NOT use Power Supply 300-1073, 300-1258, or 300-1286. The PCM_FAIL signal is not provided by these Power Supplies. Do NOT use Sense Cable 530-2210.

SPARCcenter 2000E

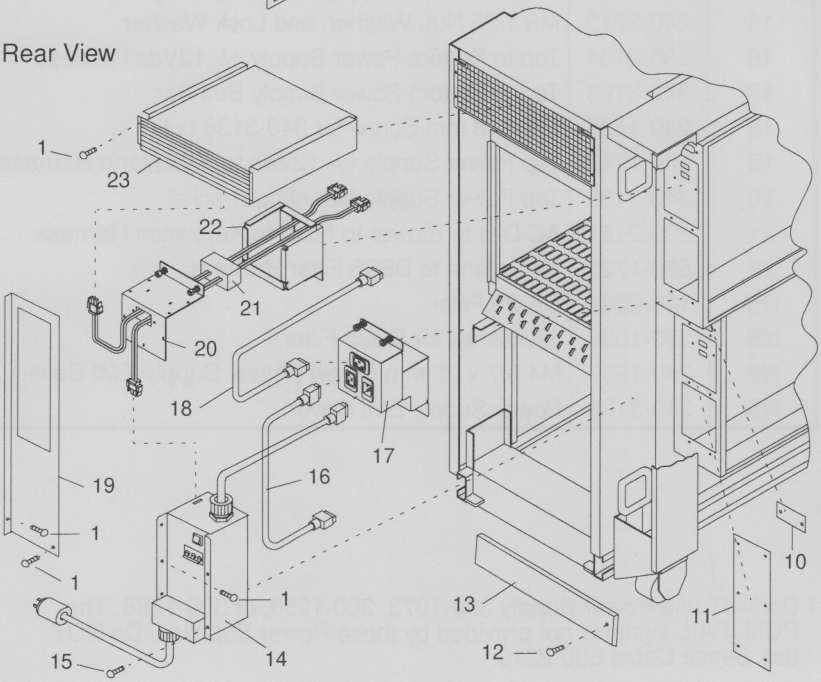
S2000E S2001E

Logic Enclosure and Data Center Cabinet

Front View



Rear View



SPARCcenter 2000E

S2000E S2001E

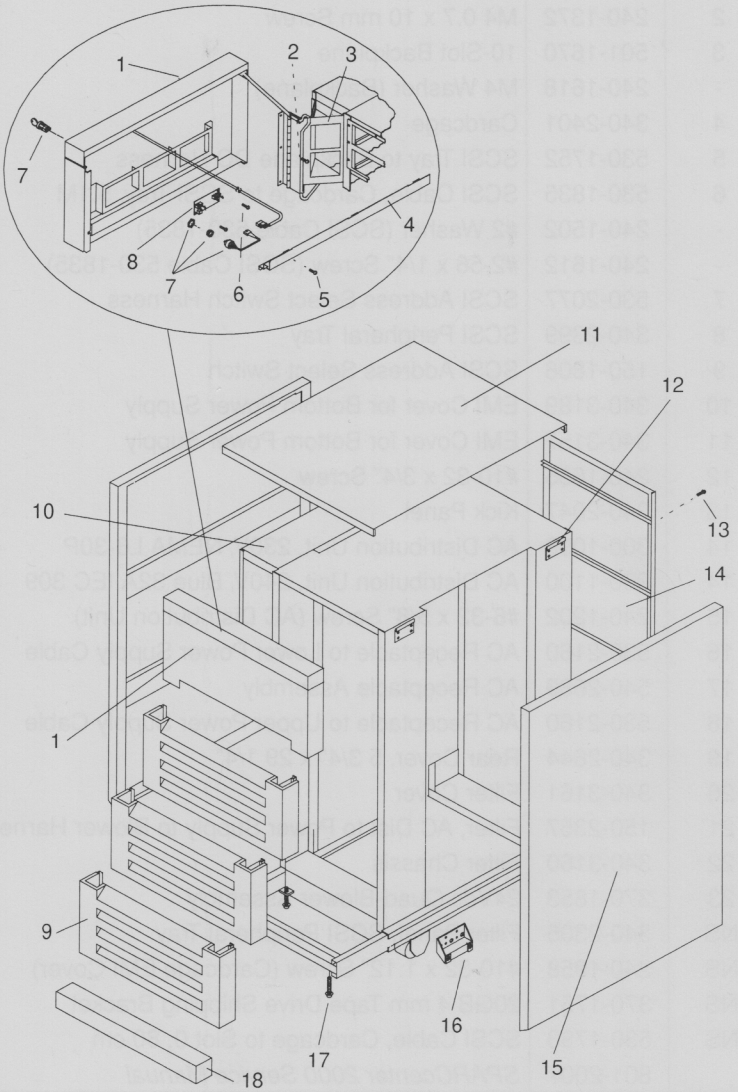
Logic Enclosure and Data Center Cabinet

CODE	PART #	DESCRIPTION
1	240-1953	#10-32 x 1/2" Screw
2	240-1372	M4 0.7 x 10 mm Screw
3	501-1670	10-Slot Backplane
-	240-1618	M4 Washer (Backplane)
4	340-2401	Cardcage
5	530-1752	SCSI Tray to Backplane DC Harness
6	530-1835	SCSI Cable, Cardcage to SCSI Tray, 5.1M
-	240-1502	#2 Washer (SCSI Cable 530-1835)
-	240-1612	#2-56 x 1/4" Screw (SCSI Cable 530-1835)
7	530-2077	SCSI Address Select Switch Harness
8	340-2399	SCSI Peripheral Tray
9	150-1806	SCSI Address Select Switch
10	340-3189	EMI Cover for Bottom Power Supply
11	340-3157	EMI Cover for Bottom Power Supply
12	240-1655	#10-32 x 3/4" Screw
13	340-2047	Kick Panel
14	300-1099	AC Distribution Unit, 230V, NEMA L6-30P
14	300-1100	AC Distribution Unit, 240V, Blue 32A IEC 309
15	240-1202	#6-32 x 5/8" Screw (AC Distribution Unit)
16	530-2160	AC Receptacle to Lower Power Supply Cable
17	540-2689	AC Receptacle Assembly
18	530-2160	AC Receptacle to Upper Power Supply Cable
19	340-2644	Rear Cover, 5 3/4" x 29 1/4"
20	340-3161	Filter Cover
21	150-2357	Filter, AC Dist to Power Supply to Blower Harness
22	340-3160	Filter Chassis
23	370-1853	24Vdc Quad-Blower Assembly
NS	340-2305	Filler Panel, SCSI Peripheral Tray
NS	240-1958	#10-32 x 1.12" Screw (Cardcage EMI Cover)
NS	370-1751	20GB 4 mm Tape Drive Shipping Bracket
NS	530-1793	SCSI Cable, Cardcage to Slot 0, 80 cm
	801-2007	*SPARCcenter 2000 Service Manual*

SPARCcenter 2000 and 2000E

S2000 S2000E S2001E

56-inch Data Center Cabinet



SPARCcenter 2000 and 2000E

S2000 S2000E S2001E

56-inch Data Center Cabinet

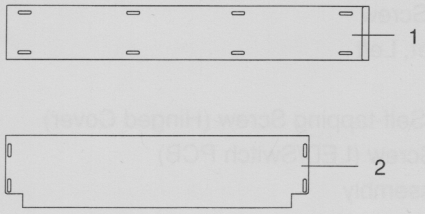
CODE	PART #	DESCRIPTION
1	540-2115	Hinged Panel Assembly
2	240-1531	M4 0.7 x 10 Screw
3	340-2456	Hinge Bracket, Left
4	340-2467	Inner Cover
5	240-1866	#8-18 x 3/8" Self-tapping Screw (Hinged Cover)
6	240-1530	M3 x 6 mm Screw (LED/Switch PCB)
7	530-1723	Keyswitch Assembly
-	330-1651	Power Key
8	501-1877	Keyswitch Interface Board
9	540-2116	Vented Panel Assembly
10	599-1821	Rack Assembly
11	340-1840	Top Panel
12	340-1885	Side Panel Bracket, Upper
13	240-1655	#10-32 x 3/4" Screw
14	340-1845	Rear Panel
15	340-1848	Side Panel
16	340-1886	Side Panel Bracket, Lower
17	230-1181	Leveler Foot
NS	250-1070	Leveler Foot Wrench
18	340-1884	Anti-Tilt Panel
NS	230-1166	Cable Tie 5.5", Reusable
NS	230-1177	Snap In Clip
NS	230-0203	Cable Tie
NS	230-1062	Cable Route Grommet
NS	260-3425	Sun Logo
NS	260-6392	SPARCcenter 2000 Nameplate
NS	261-4128	SPARCcenter 2000E Nameplate
NS	240-1632	3/8-16 x 3/4" Bolt (Caster)
NS	240-1634	3/8" Washer (Caster)
NS	240-1791	#6-32 Ballstud
NS	240-1868	1/4-28 x 1" Screw (Anti-Tilt Bar)

SPARCcenter 2000 and 2000E

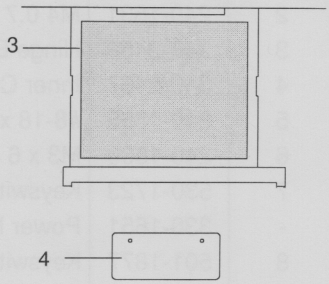
S2000 S2000E S2001E

10-Slot XDBus Logic Enclosure

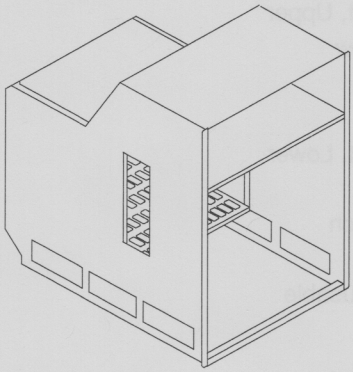
Air Baffle Kit #1



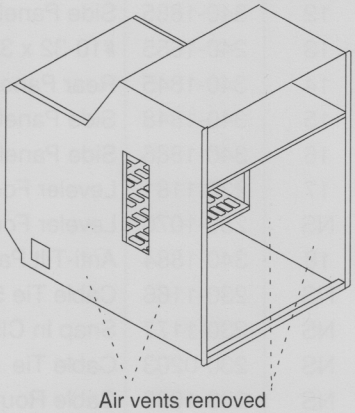
Air Baffle Kit #2



Cardcage 340-2401-02



Cardcage 340-2401-04



Notes

1. The SM51-2 Upgrade includes Air Baffle Kit #1.
2. The SM61-2 Upgrade includes Air Baffle Kit #1 and Air Baffle Kit #2.
3. The SM81-2 Upgrade includes Air Baffle Kit #1 and Air Baffle Kit #2.
4. Air Baffle Kits are not included with stand-alone Module Options.
5. Air Baffle Kit #1 is installed in systems built after December 1, 1993.
6. Cardcage 340-2401-04, released in April 1994, incorporates the airflow design changes made by Air Baffle Kit #1.
7. Air Baffle Kit #2 is installed in systems built after September 1, 1994.
8. Cardcages 340-2401-01 and 340-2401-03 were not manufactured.

SPARCcenter 2000 and 2000E

S2000 S2000E S2001E

10-Slot XDBus Logic Enclosure

CODE	PART #	DESCRIPTION
NS	560-2011	Backplane Guide Pin Kit
-	230-1401	• #2-56 Nut
-	240-2168	• Guide Pin
-	801-6248	• Guide Pin Upgrade Manual
	595-3290	Air Baffle Kit #1
-	230-1402	• Snap Fastener (x20)
1	340-3036	• Side Plate (x2)
2	340-3037	• End Plate
	595-3509	Air Baffle Kit #2
-	230-1402	• Snap Fastener (x4)
3	340-3099	• Baffle
4	340-3132	• Baffle Support Bracket
-	801-6727	• SPARCenter 2000 Air Baffle Upgrade Manual

Chassis Air Baffle Kit Requirements

	CHASSIS MANUFACTURING DATE			
CHASSIS	Pre-fcs - 12/93	12/93 - 4/94	4/94 - 9/94	9/94 - Present
340-2401-02	SM51-2 requires Air Baffle Kit #1	SM51-2 has no requirements	Not Manufactured	Not Manufactured
-	SM61-2 requires Air Baffle Kit #1 Air Baffle Kit #2	SM61-2 requires Air Baffle Kit #2	Not Manufactured	Not Manufactured
-	SM81-2 requires Air Baffle Kit #1 Air Baffle Kit #2	SM81-2 requires Air Baffle Kit #2	Not Manufactured	Not Manufactured
340-2401-04	Not Manufactured	Not Manufactured	SM51-2 has no requirements	SM51-2 has no requirements
	Not Manufactured	Not Manufactured	SM61-2 requires Air Baffle Kit #2	SM61-2 has no requirements
	Not Manufactured	Not Manufactured	SM81-2 requires Air Baffle Kit #2	SM81-2 has no requirements

Cray Superserver 6400

CS6400

Data Center Cabinet

PART#	BSD PART#	DESCRIPTION
370-2732	420-6146-001	Microcom Modem
370-2733	429-6007-001	Blower Assembly, 60Hz
370-2734	429-6007-002	Blower Assembly, 60Hz
370-2735	429-6008-001	AC Line Filter / Main Breaker, 50Hz
370-2736	429-6009-001	AC Line Filter / Main Breaker, 60Hz
370-2737	429-6009-002	AC Line Filter / Main Breaker, 60Hz
370-2738	435-6000-007	I/O Cabinet PDU, 60Hz
370-2739	435-6000-008	I/O Cabinet PDU, 50Hz
370-2740	612-6002-001	Centerplane
370-2741	613-6003-003	Control Board [1]
370-2742	613-6003-004	Control Board [2]
370-2743	613-6004-004	System Board [2]
370-2744	655-6103-001	Blower Cable, Front and Rear
370-2745	671-6128-001	Hot Swap Power Module
370-2746	421-6011-001	8MB SIMM Module
370-2747	421-6012-001	32MB SIMM Module
370-2748	420-6049-001	RS232 Serial Port PC Card
370-2749	420-6049-002	RS232 Serial Port PC Card
370-2750	420-6045-001	HIPPI Interface CHI Systems
370-2751	420-6081-001	Exabyte EXB-8505 Tape Drive
370-2752	420-6081-002	Exabyte EXB-8505 Tape Drive
370-2753	420-6144-001	QIC 1/4" Tape Drive
370-2754	421-6044-001	Dual Attach FDDI Interface
370-2755	655-6010-001	Tape Chassis SCSI Cable
370-2756	422-6118-003	68-Pin Differential SCSI Cable, 6M
370-2757	422-6150-001	External Remote Power Control Cable
370-2758	KIT85	EMI Material, SuperSPARC II Upgrade
370-2759	408-6007-002	Blower Airvane Switch Sensor

[1] Not compatible with 85MHz SuperSPARC II.
[2] Compatible with 60MHz SuperSPARC and 85MHz SuperSPARC II.

Cray Superserver 6400

CS6400

Data Center Cabinet - Continued

PART#	BSD PART#	DESCRIPTION
370-2760	612-6061-010	60MHz SuperSPARC Module
370-2761	612-6162-002	60MHz SuperSPARC Module
370-2762	612-6175-001	85MHz SuperSPARC II Module
370-2763	409-6011-001	Tape Chassis 200W Power Supply
370-2764	409-6012-001	Disk Tray 300W Power Supply
370-2765	420-6063-001	2.9GB Dual Port Disk Drive
370-2766	420-6113-001	2.9GB Single Port Disk Drive
370-2767	420-6114-002	Dual Port Disk Tray
370-2768	420-6114-002	Enhanced Dual Port Disk Tray
370-2769	420-6116-001	Tape Drive Chassis
370-2770	420-6117-001	9GB Single Port Disk Drive
370-2771	420-6117-002	9GB Single Port Disk Drive
370-2772	420-6170-001	Single Port Disk Tray
370-2773	420-6170-002	Enhanced Single Port Disk Tray
370-2774	612-6010-001	ECB Assembly, Seagate Elite-9 Adapter
370-2775	655-6011-001	SCSI Disk Drive Port-A Cable
370-2776	655-6012-001	SCSI Disk Drive Port-B Cable
370-2777	655-6013-001	Single Port SCSI Disk Drive Cable
370-2778	420-6126-001	Differential SCSI Terminator
370-2779	422-6124-001	System Service Processor Interface Cable
370-2780	429-6005-001	Backplane Assembly, Power Supply
370-2781	CS3T2-020191	10-inch Fan
370-2782	435-6000-010	Circuit Breaker, Main, 250V
370-2783	435-6000-012	Circuit Breaker, Fan, 415V
370-2784	435-6000-013	Circuit Breaker, Fan, 415V, 62DL
370-2785	436-6000-003	Air Filter, 9.5" x 22.75" x 0.43"
370-2786	SP-16ASYN-01	16 Port Asynchronous Interface
370-2787	SP-ATM100-01	4615 SBus with 100MB ATM Adapter
370-2788	SP-ATM155-01	4615 SBus with 155MB ATM Adapter

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Data Center Cabinet - Continued

PART#	BSD PART#	DESCRIPTION
370-2789	SP-DLTLM5-01	Tape Library
370-2790	SP-DLT450-01	Table-Top Tape Library
370-2791	SP-F3480S-01	1/2" Desktop Cartridge Tape Drive
370-2792	SP-CBL005-01	Differential SCSI Cable, 20'
370-2793	SP-CBL007-01	Differential SCSI Cable, 10'
370-2794	SP-XTBASE-01	HMX NCD Xterminal Base
370-2795	SP-XTMON-01	RHMX NCD Xterminal Monitor
370-2796	SP-XTKEY-01	HMX NCD Xterminal Keyboard
370-2797	SP-XTMSE-01	RHMX NCD Xterminal Mouse
370-2798	SP-EX903-01	EX480 TMCS Card
370-2799	SP-EX904-01	Exabyte EXB-480 Long Axis Belt
370-2800	SP-EX905-01	Exabyte EXB-480 Front Panel Assembly
370-2801	SP-EX906-01	EXB-480 Robotic Arm w Barcode Reader
370-2802	SP-EX907-01	Exabyte EXB-480 CHM Flex Cable
370-2803	SP-EX908-01	Exabyte EXB-480 Power Supply and Fan
370-2804	SP-EX909-01	Exabyte EXB-8505SL Drive with Carrier
370-2806	409-6010-005	Power Supply [1]
370-2807	409-6010-006	Power Supply [2]

[1] Not compatible with 85MHz SuperSPARC II.
[2] Compatible with 60MHz SuperSPARC and 85MHz SuperSPARC II.